VOLUME 43 (1987)

Author Index

Allison, D.A. 243
Alnot, P. 263
Anater, T.F. 243

Bagus, P.S. c13
Benco, Y. 1
Biskupič, S. 1
Boča, R. 1
Brabec, V. 225
Brennan, J.G. 297

Calandra, C. 121
Cavell, R.G. 215
Chehimi, M. 307
Chourasia, A.R. 233
Copper, G. 297
Czuchajowski, L. 169

Delamar, M. 307
DiCenzo, S.B. c7
Dragoun, O. 225

Ebel, M.F. 11
Edamoto, E. 139

Fadley, C.S. 263

Goulet, T. 17
Grandi, L. 121
Green, J.C. 297

Harrison, I. 155

Inoyatov, A. 225

Jain, N.C. c1
James, B.D. 287
Jay-Gerin, J.-P. 17

Kato, H. 139
Kay, E. c13
King, G.C. 155
Klasinc, L. 147
Klessinger, M. 147
Kojima, I. 139
Kovalík, A. 225
Krocza, H. 11
Kuhn, H.J. 147

Leckey, R.C.G. 183
Liesegang, J. 287
Liu, F. 83

McKenzie, D.R. 53
Meier, R.J. 131
Minkova, A. 225
Miyahara, T. 139
Miyazaki, E. 139

Nelin, C.J. c13
Novgorodov, A.F. 225

Olivier, J. 263
Orita, M. 139

Paparazzo, E. 97
Parmigiani, F. c13
Patau, J.-P. 17
Payling, R. 37
Pijpers, A.P. 131
Pojer, P.M. 287

Ratner, B.D. 61
Redfern, C.M. 297
Ruščić, B. 147
Ryšavý, M. 225

Sanada, N. 139
Sawa, K. 139
Sodhi, R.N.S. 215
Spokas, R.J. 287
Szajman, J. 37
Szuber, J. 113

Valeri, S. 121
Vylov, T.S. 225

Wang, Z.-Y. 83
Wertheim, G.K. c7
White, S.B. 53
Wisor, A.K. 169
Wyczisk, F. 263

Yih, R.S. 61
Yu, X.-R. 83

Subject Index

Al_2O_3
XPS and Auger spectroscopy studies on mixtures of the oxides SiO_2, Al_2O_3, Fe_2O_3, and Cr_2O_3 97

Arsenic
The *KLL* and *KLX* Auger electrons of arsenic from the ^{75}Se decay 225

Attenuation length
On the energy dependence of the attenuation length of electrons in low *Z*-elements 11

C_2H_2
Excitation of inner-shell states of CO_2, COS, N_2O and C_2H_2 by low energy electron impact 155

Chromium
Two hole spectra and valence states in chromium and chromium silicides 121

Chromium silicides
Two hole spectra and valence states in chromium and chromium silicides 121

CO_2
Excitation of inner-shell states of CO_2, COS, N_2O and C_2H_2 by low energy electron impact 155

Core binding energies
Comment on "Core binding energies for clusters deposited on different insulating substrates: ESCA spectra and theoretical electronic structure studies" *c*7

Core binding energies
Reply to the comment by DiCenzo and Wertheim on "Core binding energies for clusters..." *c*13

COS
Excitation of inner-shell states of CO_2, COS, N_2O and C_2H_2 by low energy electron impact 155

Cr_2O_3
XPS and Auger spectroscopy studies on mixtures of the oxides SiO_2, Al_2O_3, Fe_2O_3, and Cr_2O_3 97

Cyclophanes
Electronic effects in multibridged cyclophanes as viewed by the indices of excitation 169

Depth profiles
A comparison of two angular dependent ESCA algorithms useful for constructing depth profiles of surfaces 61

Electron energy analysers
Recent developments in electron energy analysers 183

ESCA algorithms
A comparison of two angular dependent ESCA algorithms useful for constructing depth profiles of surfaces 61

Ethylene
Relative partial photoionization cross-section and photoelectron branching ratios of ethylene 297

Fe_2O_3
XPS and Auger spectroscopy studies on mixtures of the oxides SiO_2, Al_2O_3, Fe_2O_3, and Cr_2O_3 97

GaAs (001)
Angle-resolved X-ray photoelectron spectroscopy for the characterization of GaAs (001) surfaces 263

GaAs(111)As
AES and PYS studies of the polar GaAs(111)As surface after thermal cleaning in ultrahigh vacuum 113

H_2S
The effect of relativistic curvature calibration corrections for a non-retarding hemispherical sector analyzer: revision of the absolute S1*s* binding energy of H_2S and the *KLL* Auger energy of PH_3 215

Imaging
Imaging and small spot analysis with ESCA 243

Ionization energies
On the empirical correlation schemes for ionization energies in ring compounds 147

Kramers–Krönig analysis
Accuracy of optical data derived from

electron energy loss spectra by Kramers–Krönig analysis 53

LaH_3
A study of LaH_3 by Auger electron appearance potential spectroscopy 233

Matrix effects
Matrix effects in Auger analysis c1
Merocyanine dyes
X-ray photoelectron spectroscopy of merocyanine dyes. III. Structure of the O1*s* line in the merocyanine 540 dye 307
MF_2 molecules (M = Co, Ni and Cu)
Theoretical interpretation of photoelectron spectra for transition metal compounds. The He(I) and He(II) spectra of MF_2 molecules (M = Co, Ni and Cu) 1
Monte Carlo simulations
Monte Carlo simulations of low-energy (< 10 eV) electron transmission and reflection experiments: application to solid xenon 17

N_2O
Excitation of inner-shell states of CO_2, COS, N_2O and C_2H_2 by low energy electron impact 155
NO chemisorption
Angle-resolved photoemission study of NO chemisorption of Pd(111) 139

Optical data
Accuracy of optical data derived from electron energy loss spectra by Kramers–Krönig analysis 53

Pd(111)
Angle-resolved photoemission study of NO chemisorption on Pd(111) 139
PH_3
The effect of relativistic curvature calibration corrections for a non-retarding hemispherical sector analyzer: revision of the absolute S1*s* binding energy of H_2S and *KLL* Auger energy of PH_3 215
Polymer
Oxygen-induced secondary substituent effects in polymer XPS spectra 131

Radiotechnetium labelling
X-ray photoelectron spectroscopy (XPS) and radiotechnetium labelling of products from the reaction of tetrahydridoborate with transition metal salts 287
Relativistic curvature
The effect of relativistic curvature calibration corrections for a non-retarding hemispherical sector analyzer: revision of the absolute S1*s* binding energy of H_2S and the *KLL* Auger energy of PH_3 215

Secondary substituent effects
Oxygen-induced secondary substituent effects in polymer XPS spectra 131
^{75}Se decay
The *KLL* and *KLX* Auger electrons of arsenic from the ^{75}Se decay 225
Sensitivity factors
On the semi-empirical elemental sensitivity factors for AES: ionization cross-section and electron mean free path 37
Sharpest Auger peaks
X-ray excited Auger spectroscopy: selecting the optimum sharpest Auger peaks excited by Al *K*, Ag *L* and Ti *K* X-ray radiations 83
SiO_2
XPS and Auger spectroscopy studies on mixtures of the oxides SiO_2, Al_2O_3, Fe_2O_3, and Cr_2O_3 97
Small spot analysis
Imaging and small spot analysis with ESCA 243

Tetrahydridoborate
X-ray photoelectron spectroscopy (XPS) and radiotechnetium labelling of products from the reaction of tetrahydridoborate with transition metals salts 287
Transition metal compounds
Theoretical interpretation of photoelectron spectra for transition metal compounds. The He(I) and He(II) spectra of MF_2 molecules (M = Co, Ni and Cu) 1

Xenon
Monte Carlo simulations of low-energy (< 10 eV) electron transmission and reflection experiments: application to solid xenon 17